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=> d que sta 119
L12 STR

Hy--N
1 2

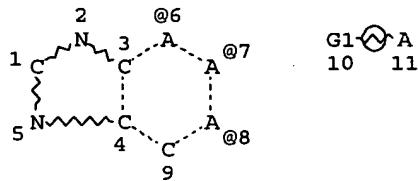
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 2

STEREO ATTRIBUTES: NONE
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OR NCNC2-NC5-NC5 OR NCOC2-NC5-C6 OR NCOC2-NC5 OR NCSC2-NC5-C6
OR NCSC2-NC5)/ES
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C2-NC5)/ES
L15 1606332 SEA FILE=REGISTRY ABB=ON PLU=ON (L13 OR L14)
L17 SCR 1568
L19 67530 SEA FILE=REGISTRY SUB=L15 SSS FUL L12 AND L17

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SEARCH TIME: 00.00.02

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L17 SCR 1568
L24 STR



VAR G1=6/7/8
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STEREO ATTRIBUTES: NONE
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100.0% PROCESSED 53414 ITERATIONS 1194 ANSWERS
 SEARCH TIME: 00.00.01

=> d que sta l35
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 L33 STR

Cy~~Hy--N
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STEREO ATTRIBUTES: NONE
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100.0% PROCESSED 26022 ITERATIONS 2972 ANSWERS
 SEARCH TIME: 00.00.01

=> => d que sta l30
 L12 STR

Hy--N
 1 2

NODE ATTRIBUTES:
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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 2

STEREO ATTRIBUTES: NONE

L17 SCR 1568
 L28 4930 SEA FILE=REGISTRY ABB=ON PLU=ON NCSC2-NCNC3/ES AND OC4/ES
 L30 27 SEA FILE=REGISTRY SUB=L28 SSS FUL L12 AND L17

100.0% PROCESSED 27 ITERATIONS 27 ANSWERS
 SEARCH TIME: 00.00.01

=> => b hcap
 FILE 'HCAPLUS' ENTERED AT 10:42:18 ON 04 AUG 2006
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FILE COVERS 1907 - 4 Aug 2006 VOL 145 ISS 6
 FILE LAST UPDATED: 2 Aug 2006 (20060802/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

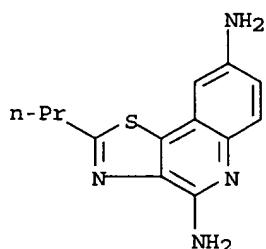
=> d bib abs hitind hitstr retable 159 tot

L59 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2006:236816 HCAPLUS
 DN 144:286177
 TI Method using toll-like receptor 8 (TLR8) agonists for stimulating the immune response of newborns
 IN Levy, Ofer; Wessels, Michael; Miller, Richard L.; Tomai, Mark A.
 PA Children's Medical Center Corporation, USA; 3M Innovative Properties Company
 SO PCT Int. Appl., 67 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO2006029223	A2	20060316	2005WO-US31904	20050908
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRAI 2004US-607833P	P	20040908		
2005US-692325P	P	20050620		

noble jarrell 04/08/2006

AB 2005US-694267P P 20050627
The invention is based on the surprising discovery that agonists of TLR8 are uniquely efficacious in enhancing (e.g. inducing) the immune response of newborns. Thus, agonists of TLR8 serve as both vaccine adjuvants and as adjunctive therapies for acute infection in newborns, preferably the agonist is a TLR8-selective agonist. The immune response induced, or enhanced, in the neonatal host can be, for example, a cytokine immune response and/or a humoral immune response (e.g., antigen-specific).
CC 1-7 (Pharmacology)
Section cross-reference(s): 15
IT Anti-infective agents
Antibacterial agents
Antiviral agents
Combination chemotherapy
Cord blood
Fungicides
Human
Immunostimulants
Infection
Monocyte
Neoplasm
Newborn
Parasiticides
Prophylaxis
Signal transduction, biological
Vaccines
(toll-like receptor 8 agonist for stimulating immune response of newborn)
IT 162397-26-4 256922-53-9 256922-57-3 256922-63-1 256922-65-3
256922-70-0 256922-76-6 256922-81-3 256922-82-4
878555-54-5 878555-55-6 878555-56-7 878555-57-8 878555-58-9
878555-59-0 878555-60-3
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(toll-like receptor 8 agonist for stimulating immune response of newborn)
IT 256922-70-0
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(toll-like receptor 8 agonist for stimulating immune response of newborn)
RN 256922-70-0 HCAPLUS
CN Thiazolo[4,5-c]quinoline-4,8-diamine, 2-propyl- (9CI) (CA INDEX NAME)



L59 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:216958 HCAPLUS
DN 144:299305
TI Compositions comprising nitrogen-containing heterocycle immune response modifiers for mucosal vaccination
IN Miller, Richard L.; Kieper, William C.
PA 3M Innovative Properties Company, USA
SO U.S. Pat. Appl. Publ., 20 pp.

CODEN: USXXCO

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US2006051374	A1	20060309	2005US-0116476	20050428
PRAI	2004US-566121P	P	20040428		

AB The present invention provides pharmaceutical combinations that include small mol. immune response modifiers (IRMs) formulated for mucosal administration and an antigen formulated for mucosal administration. Addnl., the invention provides methods for immunizing a subject. Generally, the methods include administering an antigen to a mucosal surface of the subject in an amount effective, in combination with an IRM compound, to generate an immune response against the antigen; and administering an IRM compound to a mucosal surface of the subject in an amount effective, in combination with the antigen, to generate an immune response against the antigen. For example, an ovalbumin-IRM1 (N-[6-[(2-[4-amino-2-(ethoxymethyl)-1H-imidazo[4,5-c]quinolin-1-yl]1,1-dimethylethyl]amino]-6-oxohexyl]-4-azido-2-hydroxybenzamide) conjugate was prepared and suspended in PBS to a final concentration of 5 mg/mL ovalbumin and 0.5 mg/mL IRM1. Mice were immunized on Day 0 with 100 µg of the ovalbumin-IRM1 conjugate, either intranasally or i.v. Intranasal delivery of antigen plus IRM1 generated greater total ovalbumin-specific CD8+ T cell (OT-I) nos. at Day 7 than i.v. delivery in all lymphoid tissues examined. Also, intranasal delivery of IRM1 plus antigen generated greater total OT-I cell nos. at Day 7 than antigen alone, indicating a dramatic effect of the IRM in enhancing antigen specific T cell activation via that route.

INCL 424204100; 424234100; 514291000

CC 63-3 (Pharmaceuticals)

Section cross-reference(s): 15

IT 144875-48-9, IRM 4 256922-56-2, IRM 3 642473-95-8, IRM 2
 680987-04-6, IRM 1 740809-54-5, IRM 12 845638-55-3, IRM 11
 847575-77-3, IRM 9 859875-28-8, IRM 6 862844-28-8, IRM 7
 863728-88-5, IRM 8 878499-79-7, IRM 5 878499-80-0, IRM 10

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

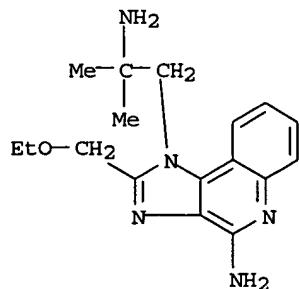
(compns. comprising antigen and aminopyridine fused to five membered nitrogen-containing heterocycle as immune modifier for mucosal vaccination)

IT 642473-95-8, IRM 2

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(compns. comprising antigen and aminopyridine fused to five membered nitrogen-containing heterocycle as immune modifier for mucosal vaccination)

RN 642473-95-8 HCPLUS

CN 1H-Imidazo[4,5-c]quinoline-1-ethanamine, 4-amino-2-(ethoxymethyl)-
 α,α -dimethyl- (9CI) (CA INDEX NAME)

AN 2005:1354875 HCAPLUS

DN 144:64394

TI Use of a compound in the treatment of sleep disorders

IN Sunderraj, Palaniswamy; Shephard, Adrian; Jones, Huw

PA Boots Healthcare International Limited, UK

SO PCT Int. Appl., 72 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO2005123074	A1	20051229	2004WO-GB02330	20040601 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA---2524805	AA	20041130	2004CA-2524805	20040601 <--
	AU2004319510	A1	20060105	2004AU-0319510	20040601 <--
	EP---1660082	A1	20060531	2004EP-0735597	20040601 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
PRAI	2003GB-0012419	A	20030530 <--		
	2004WO-GB02330	W	20040601		

AB A method is disclosed for the treatment of sleep disorders. The method involves administration of triprolidine, in combination with at least one further active pharmaceutical agent, for enabling an individual to wake refreshed after sleep and the method of treating such an individual with triprolidine. Use of triprolidine, in combination with at least one further active pharmaceutical agent, as active ingredient in the manufacture of a composition for the treatment of sleep disorders is also described. A method of treating sleep of a person suffering from a sleep disorder, which method comprises administration of an ED of triprolidine, in combination with at least one further active pharmaceutical agent, as active ingredient to such a person is also described. The triprolidine is administered shortly before a person wishes to fall asleep, preferably orally and most commonly in the form of a tablet containing up to 20mg, e.g. 0.1mg, 1.25mg or 2.5mg, of the active ingredient. The triprolidine is also effective in enabling an individual to sleep more easily.

IC ICM A61K-0031/44

ICS A61P-0025/00

CC 1-12 (Pharmacology)

Section cross-reference(s): 2, 63

ST triprolidine pharmaceutical combination therapy sleep disorder

IT Allergy

Allergy inhibitors

Althaea officinalis

Analgesics

Anesthetics

Antacids

Anti-inflammatory agents

Antiasthmatics

Antibiotics

Antidepressants

Antidiuretics

Antihistamines

Antimigraine agents

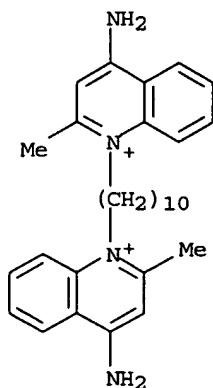
Antitussives

Antiviral agents
 Anxiety
 Anxiolytics
 Appetite depressants
 Cartagena ipecacuanha
 Coating materials
 Combination chemotherapy
 Common cold
 Cough
 Cranberry
 Decongestants
 Disinfectants
 Eucalyptus
 Glycyrrhiza
 Honey
 Humulus
 Hyperkinesia
 Hypnotics and Sedatives
 Influenza
 Laxatives
 Lubricants
 Matricaria recutita
 Mucous membrane
 Passiflora
 Pimpinella anisum
 Sleep
 Sleep disorders
 Squill (plant)
 Tranquilizers
 Valeriana

(method for treatment of sleep disorders)

- IT 50-23-7, Hydrocortisone 50-78-2, Aspirin 53-86-1, Indomethacin 58-08-2, Caffeine, biological studies 59-42-7, Phenylephrine 61-68-7, Mefenamic acid 73-31-4, Melatonin 76-57-3, Codeine 86-22-6, Brompheniramine 90-82-4, Pseudoephedrine 93-14-1, Guaiphenesin 94-09-7, Benzocaine 103-90-2, Paracetamol 123-03-5, Cetylpyridinium chloride 125-71-3, Dextromethorphan 132-22-9, Chlorpheniramine 136-77-6, Hexylresorcinol 137-58-6, Lidocaine 378-44-9, Betamethasone 486-12-4, Triprolidine 522-51-0, Dequalinium chloride 525-66-6, Propranolol 550-70-9, Triprolidine hydrochloride 616-91-1, Acetylcysteine 638-23-3, Carbocisteine 768-94-5, Amantadine 1300-94-3, Amylmetacresol 1404-88-2, Tyrothricin 1490-04-6, Menthol 4419-39-0, Beclomethasone 5104-49-4, Flurbiprofen 10102-43-9, Nitric oxide, biological studies 12041-76-8, Dichlorobenzyl alcohol 13392-28-4, Rimantadine 14838-15-4, Phenylpropanolamine 15307-79-6, Diclofenac sodium 15307-86-5, Diclofenac 15686-51-8, Clemastine 15687-27-1, Ibuprofen 18683-91-5, Ambroxol 22071-15-4, Ketoprofen 22161-81-5, Dexketoprofen 22204-53-1, Naproxen 36322-90-4, Piroxicam 36791-04-5, Tribavirin 39809-25-1, Penciclovir 50679-08-8, Terfenadine 57808-66-9, Domperidone 59277-89-3, Aciclovir 59804-37-4, Tenoxicam 71125-38-7, Meloxicam 79794-75-5, Loratadine 82410-32-0, Ganciclovir 83799-24-0, Fexofenadine 83881-51-0, Cetirizine 87848-99-5, Acrivastine 89796-99-6, Aceclofenac 103628-46-2, Sumatriptan 104227-87-4, Famciclovir 121679-13-8, Naratriptan 124832-26-4, Valaciclovir 139110-80-8, Zanamir 139264-17-8, Zolmatriptan 144034-80-0, Rizatriptan 154323-57-6, Almotriptan 162011-90-7, Rofecoxib 169590-42-5, Celecoxib 204255-11-8, Oseltamir phosphate RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
- (method for treatment of sleep disorders)
- IT 522-51-0, Dequalinium chloride 124832-26-4, Valaciclovir RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
- (method for treatment of sleep disorders)
- RN 522-51-0 HCAPLUS
- CN Quinolinium, 1,1'-(1,10-decanediyl)bis[4-amino-2-methyl-, dichloride (9CI)

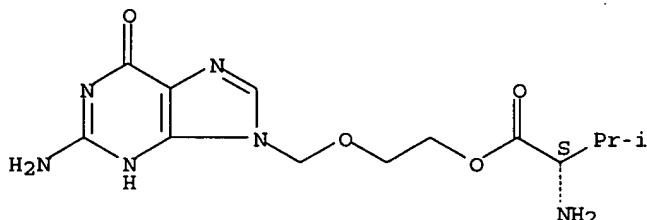
(CA INDEX NAME)



●2 Cl-

RN 124832-26-4 HCAPLUS
 CN L-Valine, 2-[(2-amino-1,6-dihydro-6-oxo-9H-purin-9-yl)methoxy]ethyl ester
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon	2001			http://www.drugs.com	
Anon	1998			http://www.netdoctor	
Feng-Jing, C	2003			US2003180352 A1	
John, S	1964			US---3146169 A	HCAPLUS
Michael, N	2001			US---6245785 B1	HCAPLUS
Mignot, E	2003			WO--03032912 A	HCAPLUS

L59 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:1292120 HCAPLUS

DN 144:27615

TI Pharmaceutical combination and method for treatment of reactive arthritis or bursitis

IN Bonner, Ernest L.; Hines, Robert

PA Ficaar, Inc., USA

SO U.S. Pat. Appl. Publ., 5 pp., Cont.-in-part of U.S. Ser. No. 54,921.
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 5

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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noble jarrell 08/08/2006

PI	US2005272673	A1	20051208	2005US-0096260	20050329 <--
	US---6087382	A	20000711	1999US-0270962	19990317 <--
	US---6465473	B1	20021015	2000US-0510704	20000222 <--
	US2003055022	A1	20030320	2002US-0271117	20021015 <--
	US---6765000	B2	20040720		
	CA---2502397	AA	20040429	2003CA-2502397	20031014 <--
	WO2004034987	A2	20040429	2003WO-US32653	20031014 <--
	WO2004034987	A3	20040715		
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	AU2003284231	A1	20040504	2003AU-0284231	20031014 <--
	EP---1558266	A2	20050803	2003EP-0776410	20031014 <--
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	CN---1729006	A	20060201	CN 2003-80103653	20031014 <--
	US2005059640	A1	20050317	2004US-0896612	20040720 <--
	US---7053073	B2	20060530		
	US2005137181	A1	20050623	2005US-0054921	20050209 <--
PRAI	1999US-0270962	A2	19990317 <--		
	2000US-0510704.	A2	20000222 <--		
	2002US-0271117	A2	20021015 <--		
	2004US-0896612	A2	20040720		
	2005US-0054921	A2	20050209		
	2003WO-US32653	W	20031014 <--		

AB A method for treatment of conditions in human beings associated with either or both reactive arthritis or bursitis comprising administering a combination of a member from each of the following groups of medications: (1) synthetic purine nucleoside analog antiviral drugs, (2) antibiotic drugs, and (3) imidazole drugs. Alternate embodiments of the invention include dual combinations of (A) a member of the synthetic purine nucleoside analog group of antiviral drugs and a member of the antibiotic group of drugs, (B) a member of the antibiotic group of drugs and a member of the imidazole family of drugs, and (C) a member of the synthetic purine nucleoside analog group of antiviral drugs and a member of the imidazole group of drugs. A 52 yr old male presented with complaints of bilateral knee and left wrist pain. He also noted associated morning stiffness. He was treated with minocycline hydrochloride 100 mg BID and acyclovir 400 mg BID. This resulted in significant improvement, but not total resolution of his complaints of pain and stiffness in his knees and left wrist.

IC ICM A61K-0031/7076
ICS A61K-0031/52; A61K-0031/522; A61K-0031/7048

INCL 514029000; 514045000; 514263230

CC 63-6 (Pharmaceuticals)

Section cross-reference(s): 1

IT Purine nucleosides

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(analogs; pharmaceutical combination and method for treatment of reactive arthritis or bursitis)

IT Pain

(ankle; pharmaceutical combination and method for treatment of reactive arthritis or bursitis)

IT Antibiotics

(macrolide; pharmaceutical combination and method for treatment of reactive arthritis or bursitis)

IT Antibiotics

Antimicrobial agents

Antiviral agents

Arthritis

Human

(pharmaceutical combination and method for treatment of reactive arthritis or bursitis)

IT Ketolides

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmaceutical combination and method for treatment of reactive arthritis or bursitis)

IT Antibiotics

(β -lactam; pharmaceutical combination and method for treatment of reactive arthritis or bursitis)

IT 443-48-1, Metronidazole 10118-90-8, Minocycline 13614-98-7, Minocycline hydrochloride 59277-89-3, Acyclovir 124832-27-5, Valacyclovir hydrochloride

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmaceutical combination and method for treatment of reactive arthritis or bursitis)

IT 124832-27-5, Valacyclovir hydrochloride

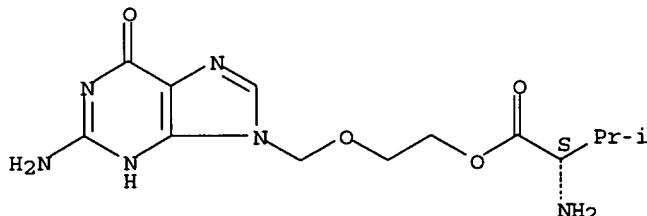
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmaceutical combination and method for treatment of reactive arthritis or bursitis)

RN 124832-27-5 HCPLUS

CN L-Valine, 2-[(2-amino-1,6-dihydro-6-oxo-9H-purin-9-yl)methoxy]ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

L59 ANSWER 5 OF 8 HCPLUS COPYRIGHT 2006 ACS on STN

AN 2005:220118 HCPLUS

DN 142:273978

TI Administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus

IN Averett, Devron R.

PA USA

SO U.S. Pat. Appl. Publ., 78 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US2005054590	A1	20050310	2004US-0931130	20040901 <--
	AU2004271972	A1	20050324	2004AU-0271972	20040901 <--
	CA---2537450	AA	20050324	2004CA-2537450	20040901 <--
	WO2005025583	A2	20050324	2004WO-US28236	20040901 <--

noble jarrell 04/08/2006

WO2005025583 A3 20050519
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG
 EP---1667694 A2 20060614 2004EP-0782670 20040901 ---
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR

PRAI 2003US-500339P P 20030905 ---
 2003US-518996P P 20031110 ---
 2003US-518997P P 20031110 ---
 2004WO-US28236 W 20040901

OS MARPAT 142:273978

AB This invention relates to methods for treating or preventing hepatitis C virus infections in mammals using Toll-Like Receptor (TLR) 7 ligands and prodrugs thereof. More particularly, this invention relates to methods of orally administering a therapeutically effective amount of one or more prodrugs of TLR7 ligands for the treatment or prevention of hepatitis C viral infection. Oral administration of these TLR7 immunomodulating ligands and prodrugs thereof to a mammal provides therapeutically effective amts. and reduced undesirable side effects.

IC ICM A61K-0031/7076

ICS A61K-0031/522; A61K-0031/513; A61K-0031/4745

INCL 514043000; 514045000; 514269000; 514263380; 514292000

CC 1-5 (Pharmacology)

Section cross-reference(s): 15, 26, 33, 63

IT Hepatitis

(C; administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)

IT Receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (TLR7 (Toll-like receptor-7); administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)

IT Antiviral agents

Combination chemotherapy

Hepatitis C virus

Human

Vomiting

(administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)

IT Drug delivery systems

(carriers; administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)

IT Hemorrhage

(digestive tract; administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)

IT Drug delivery systems

(excipients; administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)

IT Digestive tract, disease

(hemorrhage; administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)

- IT Infection
 (hepatitis C; administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)
- IT Drug delivery systems
 (injections, i.v.; administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)
- IT Digestive tract, disease
 (irritation; administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)
- IT Digestive tract, disease
 (lesions; administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)
- IT Drug delivery systems
 (mucosal; administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)
- IT Drug delivery systems
 (oral; administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)
- IT Drug delivery systems
 (parenterals; administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)
- IT Drug delivery systems
 (prodrugs; administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)
- IT Drug delivery systems
 (vehicles; administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)
- IT Infection
 (viral; administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)
- IT 533897-68-6P
 RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)
- IT 226908-75-4P 847453-42-3P
 RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)
- IT 122970-40-5,. Isatoribine 226907-52-4 533897-38-0 847453-35-4
 847453-38-7 847453-47-8
 RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
 (administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)
- IT 85658-55-5P, 5-Bromo-4-phenylpyrimidin-2-ylamine 154379-07-4P
 168430-20-4P 226908-77-6P 847453-04-7P 847453-08-1P 847453-12-7P

847453-14-9P 847453-15-0P 847453-19-4P 847453-26-3P
 RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)

IT 124737-24-2P 533897-42-6P 533897-65-3P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)

IT 144875-48-9
 RL: PAC (Pharmacological activity); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
 (administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)

IT 847453-10-5P 847453-16-1P 847453-17-2P 847453-18-3P 847453-20-7P
 847453-21-8P 847453-22-9P 847453-23-0P 847453-24-1P 847453-25-2P
 847453-27-4P 847453-30-9P 847453-33-2P 847453-43-4P
 847453-50-3P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)

IT 73-24-5D, Adenine, analogs 118-00-3D, Guanosine, analogs 289-95-2D,
 Pyrimidine, analogs 62160-23-0 847453-51-4 847453-52-5
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)

IT 77-76-9, 2,2-Dimethoxypropane 108-86-1, Bromobenzene, reactions
 109-12-6, 2-Aminopyrimidine 541-41-3, Ethyl chloroformate 623-78-9,
 N-Ethylurethane 994-30-9, Chlorotriethylsilane 1609-47-8, Diethyl pyrocarbonate 13734-41-3 18162-48-6, tert-Butyldimethylsilyl chloride 56741-95-8 87386-81-0 91526-18-0, 4-Hydroxymethyl-5-methyl-[1,3]dioxol-2-one 99011-02-6 121288-39-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)

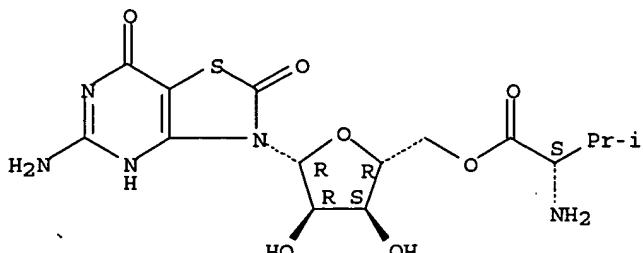
IT 2305-87-5P 124737-25-3P 533897-16-4P 847453-05-8P 847453-06-9P
 847453-07-0P 847453-09-2P 847453-28-5P 847453-29-6P 847453-31-0P
 847453-32-1P 847453-34-3P 847453-36-5P 847453-37-6P 847453-39-8P
 847453-40-1P 847453-41-2P 847453-44-5P 847453-45-6P 847453-46-7P
 847453-48-9P 847453-49-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)

IT 533897-68-6P
 RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)

RN 533897-68-6 HCPLUS

CN L-Valine, 5'-ester with 5-amino-3- β -D-ribofuranosylthiazolo[4,5-d]pyrimidine-2,7(3H,4H)-dione (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 847453-27-4P

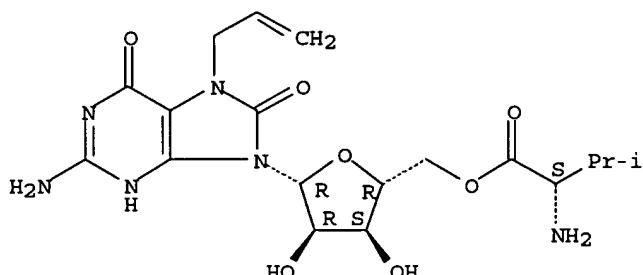
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis c virus with fewer side effects in combination with other agents)

RN 847453-27-4 HCPLUS

CN L-Valine, 5'-ester with 7,8-dihydro-8-oxo-7-(2-propenyl)guanosine (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L59 ANSWER 6 OF 8 HCPLUS COPYRIGHT 2006 ACS on STN

AN 2004:589386 HCPLUS

DN 141:139130

TI Vaccines comprising TLR agonist, TNF/TNF receptor agonist and antigen for inducing cellular immune response against infection or tumor

IN Noelle, Randolph J.; Ahonen, Cory L.; Kedl, Ross M.

PA 3M Innovative Properties Company, USA

SO PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO2004060319	A2	20040722	2003WO-US41796	20031230	
	WO2004060319	A3	20041104			
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
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 ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 CA---2511538 AA 20040722 2003CA-2511538 20031230
 US2004141950 A1 20040722 2003US-0748010 20031230
 AU2003300184 A1 20040729 2003AU-0300184 20031230
 EP---1578419 A2 20050928 2003EP-0800433 20031230
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 JP2006512391 T2 20060413 2004JP-0564947 20031230
 PRAI 2002US-437398P P 20021230
 2003WO-US41796 W 20031230

AB The present invention provides immunostimulatory combinations. Generally, the immunostimulatory combinations include a TLR agonist, a TNF or TNF receptor agonist and an tumor antigen or viral, bacterial or parasitic antigen. The TLR agonist is an agonist of TLR1-10 e.g. IRM compound, MALP-2, LPS, polyIC, CpG or any combination. The TNF agonist is an agonist or antibody against CD40L, OX40 ligand, 4-1BB ligand, CD27, CD30 ligand, TNF- α , TNF- β , RANK ligand, LT- α , LT- β , GITR ligand or LIGHT. The TNF receptor agonist is an antibody or agonist of CD40, OX40, 4-1BB, CD27 ligand, CD30, TNFR2, RANK, LT- α R, LT- β R, HVEM, GITR, TROY or RELT. These immunostimulatory combinations are useful for inducing Th1 immune response or antigen-specific CD8+ effector and memory T cell response against infectious and neoplastic conditions.

IC ICM A61K

CC 15-2 (Immunochemistry)

Section cross-reference(s): 1, 63

IT 2382-65-2D, derivs. 24939-03-5, PolyIC 132207-04-6D,
 1H-Imidazo[4,5-c]quinolin-4-amine, compds. 151751-58-5 250718-44-6,
 MALP-2 437383-09-0 532959-63-0 642473-39-0 642473-95-8

RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(vaccines comprising TLR agonist, TNF/TNFR agonist and antigen for inducing cellular immune response against infection or tumor)

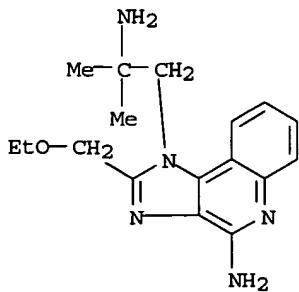
IT 642473-95-8

RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(vaccines comprising TLR agonist, TNF/TNFR agonist and antigen for inducing cellular immune response against infection or tumor)

RN 642473-95-8 HCPLUS

CN 1H-Imidazo[4,5-c]quinoline-1-ethanamine, 4-amino-2-(ethoxymethyl)- α,α -dimethyl- (9CI) (CA INDEX NAME)



L59 ANSWER 7 OF 8 HCPLUS COPYRIGHT 2006 ACS on STN

AN 2003:999374 HCPLUS

DN 140:178153

TI Efficacy of amikacin combinations for nocardiosis

AU Kanemitsu, Keiji; Kunishima, Hiroyuki; Saga, Tomoo; Harigae, Hideo;

CS Ishikawa, Shiho; Takemura, Hiromu; Kaku, Mitsuo
 Department of Molecular Diagnostics, Tohoku University Graduate School of Medicine, Sendai, 980-8574, Japan

SO Tohoku Journal of Experimental Medicine (2003), 201(3), 157-163
 CODEN: TJEMAO; ISSN: 0040-8727

PB Tohoku University Medical Press

DT Journal

LA English

AB The authors isolated 5 bacterial strains from patients diagnosed as having nocardiosis. Bacterial species were identified based on the similarities in the nucleotide sequences of 16S rRNAs. 3 Of the 5 strains were identified as Nocardia asteroides, but unexpectedly other 2 were Streptomyces hygroscopicus, and Rothia dentocariosa. The latter 2 species are not members of the family Nocardiaceae. The authors investigated the susceptibilities of these 5 strains to the following 9 antimicrobial agents: trimethoprim/sulfamethoxazole (TMP/SMX), minocycline (MINO), erythromycin (EM), amikacin (AMK), cefotaxime (CTX), faropenem (FRPM), imipenem (IPM), ciprofloxacin (CPFX), and sparfloxacin (SPFX). The min. inhibitory concentration (MIC) ranges (mg/mL) were as follows: TMP-SMX, 4- > 32; MINO, 0.125-8; EM, ≤ 0.016- > 32; AMK, 1-2; CTX, 0.063- > 32; FRPM, 0.063-16; IPM, 0.125-2; CPFX, 4-32; and SPFX, 0.5-16. Moreover, the synergistic effects of AMK in combination with each of TMP-BMX, MINO, EM, CTX, IPM, and SPFX were investigated by checkerboard synergy testing. No antagonism was recognized for the 3 N. asteroides strains. Synergistic and additive effects were observed for the combinations of AMK with CTX, IPM, or SPFX.

CC 10-5 (Microbial, Algal, and Fungal Biochemistry)

IT Drug interactions
 (additive; amikacin combinations activity against nocardiosis causing pathogens)

IT Antibacterial agents
 Antibiotic resistance
 Antibiotics
 Nocardia asteroides
 Rothia dentocariosa
 Streptomyces hygroscopicus
 (amikacin combinations activity against nocardiosis causing pathogens)

IT Antibiotics
 (macrolide; amikacin combinations activity against nocardiosis causing pathogens)

IT Drug interactions
 (synergistic; amikacin combinations activity against nocardiosis causing pathogens)

IT Antibiotics
 (β-lactam; amikacin combinations activity against nocardiosis causing pathogens)

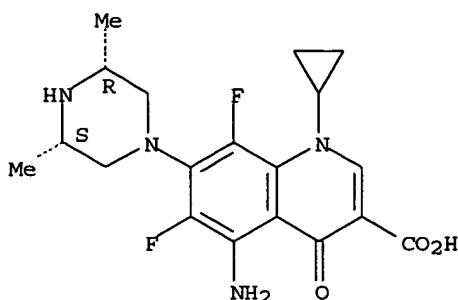
IT 114-07-8, Erythromycin 8064-90-2 13614-98-7, Minomycin 37517-28-5, Amikacin 63527-52-6, Cefotaxime 64221-86-9, Imipenem 85721-33-1, Ciprofloxacin 106560-14-9, Faropenem 110871-86-8, Sparfloxacin
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (amikacin combinations activity against nocardiosis causing pathogens)

IT 110871-86-8, Sparfloxacin
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (amikacin combinations activity against nocardiosis causing pathogens)

RN 110871-86-8 HCPLUS

CN 3-Quinoliniccarboxylic acid, 5-amino-1-cyclopropyl-7-[(3R,5S)-3,5-dimethyl-1-piperazinyl]-6,8-difluoro-1,4-dihydro-4-oxo-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Ambaye, A	1997	35	847	J Clin Microbiol	HCAPLUS
Beaman, B	1998	66	4676	Infect Immun	HCAPLUS
Beaman, B	1976	134	286	J Infect Dis	MEDLINE
Broeren, S	1984	37	1298	J Clin Pathol	MEDLINE
Christine, S	1998	39	793	J Am Acad Dermatol	
Chun, J	1995	45	240	Int J Syst Bacteriol	HCAPLUS
Climo, M	1999	43	1747	Antimicrob Agents Ch	HCAPLUS
Filice, G	2000		197	Fungal Disease of th	
Gomberd, M	1983	24	810	Antimicrob Agents Ch	
Holmberg, K	1973	76	43	J Gen Microbiol	MEDLINE
Isaacson, J	1988	84	352	Am J Med	MEDLINE
Kursat, S	1997	75	370	Nephron	MEDLINE
Laurent, F	1999	37	99	J Clin Microbiol	HCAPLUS
Marchetti, O	2000	44	2373	Antimicrob Agents Ch	HCAPLUS
McNeil, M	1992	15	435	Clin Infect Dis	
Menendes, R	1997	10	1542	Eur Respir J	
Minamoto, G	1998	26	242	Clin Infect Dis	MEDLINE
Mouton, J	1999	43	2473	Antimicrob Agents Ch	HCAPLUS
National Committee for	2001			Methods for dilution	
Prigogine, T	1998	26	222	Clin Infect Dis	
Ruimy, R	1996	46	259	Int J Syst Bacteriol	MEDLINE
Steingrube, V	1995	33	3096	J Clin Microbiol	HCAPLUS
Steingrube, V	1997	35	817	J Clin Microbiol	HCAPLUS
Wallace, R	1988	32	1776	Antimicrob Agents Ch	HCAPLUS
Wallace, R	1990	28	2726	J Clin Microbiol	
Wallace, R	1991	29	2407	J Clin Microbiol	
Wilson, R	1997	35	2235	J Clin Microbiol	HCAPLUS

1.59 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

ANSWER 3 OF 3 HCAPLUS
AN 2003:991285 HCAPLUS

DN 140·53409

DN 140.3340
TI Method for treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small molecule antagonists of immunostimulatory CpG nucleic acids

IN Krieg, Arthur M.

PA Coley Pharmaceutical Group, Inc., USA

SO PCT Int. Appl., 74 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN. CNT 1

PATENT NO.

PI WO2003103586 A2 20031218 2003WO-US17733 20030605 <
WO2003103586 A3 20040930
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, GR, HK, HU, ID, IN, IS, IE, KR, KG, KR, KZ, LC, LK, LR

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LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
 PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,
 TZ, UA, UG, UZ, VC, VN, YU, ZA, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
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 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 AU2003243409 A1 20031222 2003AU-0243409 20030605 <--
 US2004009949 A1 20040115 2003US-0455247 20030605 <--
 PRAI 2002US-386274P P 20020605 <--
 2003WO-US17733 W 20030605 <--
 OS MARPAT 140:53409
 AB Improved methods are provided for inhibiting nucleic acid-induced immune activation and for treating autoimmune disease. The methods involve using an inhibitory nucleic acid in synergistic combination with a small mol. antagonist of immunostimulatory CpG nucleic acids. Inhibitory nucleic acids useful according to the invention include poly G nucleic acids. Small mol. antagonists of immunostimulatory CpG nucleic acids useful according to the invention include chloroquine and derivs. of chloroquine-like mols., including substituted 2-phenylquinolin-4-amines. It is possible that one or both of the inhibitory nucleic acid and the small mol. antagonist of immunostimulatory CpG nucleic acids may directly bind to Toll-like receptor-9 (TLR9) and/or prevent the foreign nucleic acid or host nucleic acid/immune complex from binding to TLR9, or the inhibitory effect could also come at a downstream point in the TLR9 signaling pathway.
 IC ICM A61K
 CC 1-7 (Pharmacology)
 IT Hepatitis
 (B; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)
 IT Hepatitis
 (C; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)
 IT Eubacteria
 (CpG-containing nucleic acids; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)
 IT Immune complexes
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (CpG-containing nucleic acids; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)
 IT DNA
 Nucleic acids
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (CpG-containing; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)
 IT Receptors
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (TLR-9 (Toll-like receptor-9); treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)
 IT Blood vessel
 (endothelium, cell; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9

receptor-expressing cells)

IT Inflammation
Kidney, disease
(glomerulonephritis; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)

IT Transplant and Transplantation
(graft-vs.-host reaction; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)

IT Infection
(hepatitis B; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)

IT Infection
(hepatitis C; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)

IT Oligodeoxyribonucleotides
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(immunostimulatory CpG-containing; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids)

IT Hepatitis B virus
Hepatitis C virus
(infection; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)

IT Intestine, disease
(inflammatory; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)

IT Autoimmune disease
(insulin-dependent diabetes mellitus; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)

IT Diabetes mellitus
(insulin-dependent; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)

IT Mammary gland, neoplasm
(paraneoplastic autoimmune disease; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)

IT Autoimmune disease
(paraneoplastic; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)

IT Dendritic cell
(plasmacytoid; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)

IT Carcinoma
(pulmonary small-cell, paraneoplastic autoimmune disease; treating autoimmune or inflammatory diseases with combinations of

- inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)
- IT Lung, neoplasm
 (small-cell carcinoma, paraneoplastic autoimmune disease; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)
- IT Drug interactions
 (synergistic; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)
- IT Lupus erythematosus
 (systemic; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)
- IT Antirheumatic agents
 Autoimmune disease
 B cell (lymphocyte)
 Human
 Immunosuppressants
 Macrophage
 Multiple sclerosis
 Rheumatoid arthritis
 Signal transduction, biological
 Sjogren syndrome
 (treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)
- IT Oligonucleotides
 Phosphorothioate oligonucleotides
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)
- IT Endothelium
 (vascular, cell; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)
- IT 637060-28-7 637060-29-8 637060-30-1 637060-31-2
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (immunostimulatory CpG-containing oligodeoxynucleotide; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids)
- IT 2382-65-2
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (nucleic acids containing; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)
- IT 25191-14-4, Poly G
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (nucleic acids containing; treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)
- IT 267394-75-2, GenBank AF259262 272426-49-0, GenBank AF245704

330545-35-2, GenBank AF348140

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)

IT 54-05-7, Chloroquine 83-89-6, Quinacrine 90-45-9D, 9-Aminoacridine, derivs. 118-42-3, Hydroxychloroquine 578-68-7D, 4-Quinolinamine, derivs. 5855-52-7D, 2-Phenylquinolin-4-amine, derivs. 12125-02-9, Ammonium chloride, biological studies 17090-79-8, Monensin 81552-33-2, Concanamycin B 116764-51-3, Bafilomycin A 133671-50-8 150314-42-4 194919-92-1 241817-38-9 313822-97-8 313824-07-6 313824-15-6 313824-20-3 313826-09-4 637060-08-3 637060-09-4 637060-10-7 637060-11-8 637060-12-9 637060-13-0 637060-14-1 637060-15-2 637060-16-3 637060-17-4 637060-18-5 637060-19-6 637060-20-9 637060-21-0 637060-22-1 637060-23-2 637060-24-3 637060-25-4 637060-26-5 637060-27-6, 23: PN: WO03103586
SEQID: 20 claimed DNA

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)

IT 637063-52-6 637063-54-8

RL: PRP (Properties)

(unclaimed nucleotide sequence; method for treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids)

IT 637063-53-7 637063-55-9

RL: PRP (Properties)

(unclaimed protein sequence; method for treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids)

IT 578-68-7D, 4-Quinolinamine, derivs. 5855-52-7D,
2-Phenylquinolin-4-amine, derivs.

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(treating autoimmune or inflammatory diseases with combinations of inhibitory oligonucleotides and small mol. antagonists of immunostimulatory CpG nucleic acids by contacting TLR-9 receptor-expressing cells)

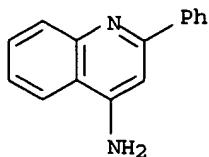
RN 578-68-7 HCPLUS

CN 4-Quinolinamine (9CI) (CA INDEX NAME)



RN 5855-52-7 HCPLUS

CN 4-Quinolinamine, 2-phenyl- (9CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 09:30:55 ON 04 AUG 2006)

FILE 'HCAPLUS' ENTERED AT 09:33:52 ON 04 AUG 2006
 L1 2 US2004162309/PN OR (US2004-777310 OR US2003-441179#)/AP, PRN
 E GORDEN K/AU
 L2 16 E4-6
 E QUI X/AU
 L3 13 E3-7
 E QUI XIAOHONG/AU
 E QUI XIAO/AU
 L4 1 E3
 E VASILAKOS J/AU
 L5 30 E3-5
 L6 5373 3M/CS, PA

FILE 'REGISTRY' ENTERED AT 09:36:16 ON 04 AUG 2006

FILE 'HCAPLUS' ENTERED AT 09:36:17 ON 04 AUG 2006
 L7 TRA L1 1- RN : 68 TERMS

FILE 'REGISTRY' ENTERED AT 09:36:17 ON 04 AUG 2006
 L8 68 SEA L7
 L9 66 L8 AND RSD/FA
 L10 1 PURINE/CN
 L11 1 PYRIMIDINE/CN
 L12 STR
 L13 158222 (NCNC2-NC5-C6 OR NCNC2-NC5 OR NCNC2-NC5-NC5 OR NCOC2-NC5-C6 OR
 L14 1451827 (NCOC2-NC5-NC5 OR NCSC2-NC5-NC5 OR NC5-C6 OR NC5-NC5 OR NCNC2-C
 L15 1606332 L13-14
 L16 50 L12 SAM SUB=L15
 L17 SCR 1568
 L18 50 L12 AND L17 SAM SUB=L15
 L19 67530 L12 AND L17 FULL SUB=L15
 L20 1 L9 AND C26H31N5O4
 L21 194 1819.154.1/RID AND L19
 L22 2 L19, L21 AND L8-9
 L23 STR
 L24 STR L23
 L25 46 L24 AND L17
 L26 1194 L24 AND L17 FULL
 SAV TEM L19 ROB310F0/A
 SAV TEM L26 ROB310F1/A
 L27 41839 NCSC2-NCNC3/ES
 L28 4930 NCSC2-NCNC3/ES AND OC4/ES
 L29 2 L12 AND L17 SAM SUB=L28
 L30 27 L12 AND L17 FULL SUB=L28
 L31 26023 NCNC2-NC5-C6/ES
 L32 STR L12
 L33 STR L32
 L34 50 L33 SAM SUB=L31
 L35 2972 L33 FULL SUB=L31

FILE 'REGISTRY' ENTERED AT 10:16:48 ON 04 AUG 2006

noble jarrell 8/08/2006

SAV TEM L35 ROB310F2/A
SAV TEM L30 ROB310F3/A
L36 70780 L19,L26,L30,L35
L37 14 L36 AND L8-9

FILE 'HCAPLUS' ENTERED AT 10:18:55 ON 04 AUG 2006
L38 35042 L36
L39 74 L38 AND L1-6
L40 3 L39 AND (COMBINA? OR COTHERAP? OR COADMIN?)
L41 1878 L38 AND (COMBINA? OR COTHERAP? OR COADMIN?)
L42 QUE PY<=2003 OR AY<=2003 OR PRY<=2003 OR PRD<=20030213 OR AD<=2
L43 1612 L41 AND L42
E TOLL LIKE/CT
E E5+ALL
E RECEPTORS/CT
E E3+ALL
L44 4871 E6+OLD,NT (L) TOLL
L45 3 L44 AND L43
L46 1 L45 AND L1-6
L47 2 L45 NOT L46
L48 1609 L43 NOT L45
L49 680 L48 AND P/DT
SEL AN 5-7 9
L50 4 E1-8 AND L49
SEL HIT RN

FILE 'REGISTRY' ENTERED AT 10:31:10 ON 04 AUG 2006
L51 6 E9-14
SEL RN 4-6
L52 3 E15-17

FILE 'HCAPLUS' ENTERED AT 10:33:32 ON 04 AUG 2006
L53 2 L52 AND L50
L54 929 L48 NOT L49
SEL AN 1 5 6 15
L55 4 E18-25 AND L54
SEL HIT RN

FILE 'REGISTRY' ENTERED AT 10:39:12 ON 04 AUG 2006
L56 9 E26-34
L57 1 C19H22F2N4O3 AND L56

FILE 'HCAPLUS' ENTERED AT 10:40:28 ON 04 AUG 2006
L58 1 L57 AND L55
L59 8 L40,L47,L53,L58

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